

WILLIAMS

Application No. 09/171,921

March 29, 2004

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (previously presented) A portable computer comprising:

movement detection means responsive to movement of the computer to produce an electrical output signal representative of such movement,

a storage medium for storing data defining a multiplicity of displayable pages each comprising of a plurality of lines;

a display having a corresponding plurality of lines to enable one of the multiplicity of pages to be displayed; and

processing means responsive to the output of said movement detection means to determine detected movement data defining a user's intention,

the processing means using said movement data to provide a mode response selected from a multiplicity of stored possible modes, at least some of which define selection for display of a further one of the pages from the multiplicity of pages, the further one of the pages being adjacent to a previously selected page being currently displayed.

2. (previously presented) A portable computer as in claim 1, in which the movement detection means comprises at least one acceleration detection means responsive to movement of the computer to produce the output electrical signal.

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3. (previously presented) A portable computer as in claim 2, in which a plurality of acceleration detection means each producing a respective electrical output signal representative of movement component in respective directions are provided.

4. (previously presented) A portable computer as in claim 3, in which the detectors are mounted to detect x and y movement components at a 90° angle to each other.

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5. (previously presented) A portable computer as in claim 1, in which the processing means provides another mode which is a data input mode and detected movement data is used to generate alphanumeric or graphical data.

6. (previously presented) A portable computer as in claim 5, in which the generated alphanumeric or graphical data is stored in the storage medium.

7. (previously presented) A portable computer as in claim 5, in which the alphanumeric or graphical data is output by transmitting means to receiving means connected to another processing device.

8. (canceled)

9. (previously presented) A portable computer as in claim 1, wherein detected movement data is used to effect scrolling of displayed information such that portions of data defining alphanumeric or graphic information outside a currently displayed screen may be selected by the user, the scrolling of displayed information effectively displaying a part of an adjacent screen.

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10. (previously presented) A portable computer as in claim 1, in which a relative lateral tilting movement causes the display of information stored as to one or other side of currently displayed information.

11. (previously presented) A portable computer as in claim 1, in which relative rolling movement causes the display of information stored as above or below currently displayed information.

12. (previously presented) A portable computer comprising:
movement detection means responsive to movement of the computer to produce an electrical output signal representative of such movement,

processing means responsive to the output of said movement detection means to determine detected movement data defining a user's intention,

the processing means using said data to provide a mode response selected from a multiplicity of stored possible modes; and

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wherein the processing means is responsive to detected movement data to determine a most likely orientation of the computer display means, the processing means causing the displayed information to be oriented accordingly.

13. (previously presented) A portable computer as in claim 12, in which a plurality of switch means responsive to user action is included adjacent to the display means, the respective function of each of the switch means being oriented to match the orientation of displayed information.

14. (previously presented) A portable computer as in claim 12 further comprising a touch sensitive static potentiometer strip responsive to movement of a user's finger to simulate movement of a potentiometer, the orientation of said potentiometer reflecting the orientation of the displayed information.

15. (previously presented) A portable computer comprising:
movement detection means responsive to movement of the computer to produce an electrical output signal representative of such movement,

processing means responsive to the output of said movement detection means to determine detected movement data defining a user's intention,

the processing means using said data to provide a mode response selected from a multiplicity of stored possible modes; and

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wherein proximity detection means which provides signals indicative of the proximity of the computer display screen to a user's view, the processing means being further responsive to changes in relative proximity to increase or decrease the density of displayed information.

16. (previously presented) A portable computer as in claim 1, in which the processing means stores data defining an authorised user's password, the processing means being locked in a secure mode until detected movement data corresponding to the security data is received.

17. (previously presented) A portable computer as in claim 1, further comprising a sound input device, the processing means being responsive to voice input signals from a user to derive alphanumeric data.

18. (previously presented) A portable computer as in claim 1, including a sound output device, the processing means being arranged to provide output of speech or other sound signals derived from stored data.

19. (previously presented) A portable computer as in claim 17, further including a sound output device in combination with a radio transceiver whereby cellular or radio telephony networks may be used.

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20. (previously presented) A portable computer as in claim 1, including radio transmission or infrared transmission means, the processing means being responsive to detected movement data to output to the transmission means signals representative of the detected movement.

21. (previously presented) A portable computer as in claim 1, including radio transmission or infrared transmission means, the processing means being responsive to detected movement data to output to the transmission means signals representative of alphanumeric characters.

22. (previously presented) A portable computer as in claim 1, including radio transceiver means, the processing means being responsive to detected movement data which identifies another device to cause the transmission of coded signals including a message for display.

23. (previously presented) A portable computer as in claim 22 in which the processing means is responsive to received encoded radio signals to activate a paging alert.

24. (previously presented) A portable computer as in claim 23, in which the page alert comprises a tone.

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25. (previously presented) A portable computer as in claim 23, in which the paging alert comprises an operation of a vibrating means.

26. (previously presented) A portable computer as in claim 22, in which the processing means causes the display of a message derived from the information received.

27. (previously presented) A portable computer as in claim 1 housed in a casing shaped to facilitate a user holding the computer as a writing stylus.

28. (previously presented) A portable computer as in claim 27, in which the casing comprises a radiused triangular cross-section along a substantial portion of its length.

29. (previously presented) A portable computer as in claim 28, in which the casing includes a flattened section incorporating a display screen.

30. (previously presented) A portable computer comprising:
a casing for housing other components of the portable computer, the casing being shaped to facilitate a user holding the portable computer as a writing stylus; and
a display screen;

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wherein said casing includes a radiused triangular cross-section along a substantial portion of its length and a flattened section incorporating the display screen, and an angular shaping between a forward holding area adapted to rest in the user's fingers and rearward flattened area holding the display screen the shaping being such as to provide a natural viewing angle of the incorporated display screen while the casing is held as a writing stylus.

31. (previously presented) A portable computer as in claim 30, in which the shaping causes the rearward screen area to be supported by the dorsal areas of a user's hand.

32-76. (canceled)

77. (previously presented) A portable computer as in claim 1, wherein the processing means is responsive to detected movement data to determine a most likely orientation of the computer display means, the processing means causing the displayed information to be oriented accordingly.

78. (previously presented) A portable computer as in claim 1, in which a plurality of switch means responsive to user action is included adjacent to the display

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means, the respective function of each of the switch means being oriented to match the orientation of displayed information.

79. (currently amended) A portable computer comprising:

movement detection means responsive to movement of the computer to produce an electrical output signal representative of such movement,

a storage medium for storing data defining a multiplicity of displayable pages each comprising of a plurality of lines;

a display having a corresponding plurality of lines to enable one of the multiplicity of pages to be displayed;

processing means responsive to the output of said movement detection means to determine detected movement data defining a user's intention, the processing means using said movement data to provide a mode response selected from a multiplicity of stored possible modes, at least some of which define selection for display of a further one of the pages from the multiplicity of pages, the further one of the pages being adjacent to a previously selected page being currently displayed; and

~~A portable computer as in claim 1 further comprising~~ a touch sensitive static potentiometer strip responsive to movement of a users finger to simulate movement of a potentiometer, the orientation of said potentiometer reflecting the orientation of the displayed information.

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80. (canceled)
